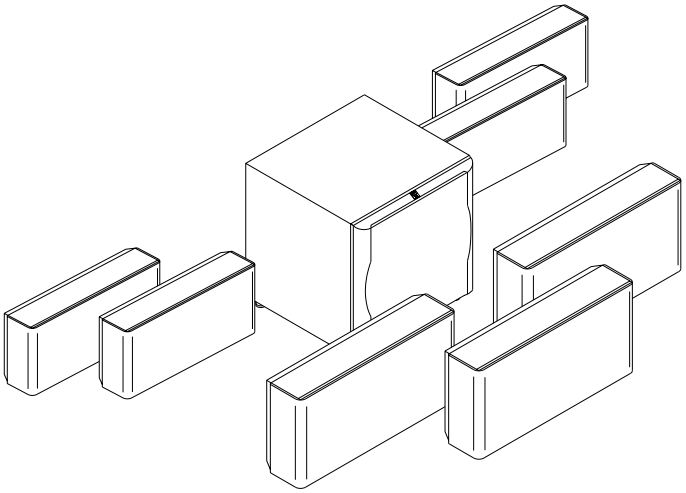
D 6PEX ▲ D 6LCR, D 6SUR, D 6SUB



	Note! Bemærk! Achtung!	A noter Attentie! Obs!	¡Atención! Attenzione! Atenção!	Huomaa! 注意！ Προσοχή!	Внимание! Megjegyzés! Uwaga!	Dikkat! Upozornění! Pozor!	Opomba! 注意！ [illegible]
	Wrong Forkert Falsch!	Faux Fout! Fel!	¡Incorrecto! Sbagliato! Errado!	Väärin! 啾、！ Λάθος!	Неправильно! Hibás! Nieprawidlowo!	Yanlış! Špatně! Nesprávne!	Napačno! 間違い！ [illegible]
	Correct Korrekt Richtig!	Vrai Goed! Rätt!	¡Correcto! Giusto! Correto!	Oikein! 正确！ Σωστό!	Правильно! Megfelelö! Prawidlowo!	Doğru! Správně! Správne!	Pravilno! 正しい！ [illegible]
	Listen Lyt Hören!	Ecoutez! Luister! Lyssna!	¡Escuche! Ascoltare! Ouça!	Kuuntele! 倾听！ Ακούστε!	Слушайте! Hallgassa meg! Sluchaj!	Dinle! Poslouchejte! Počúvajte!	Poslušajte! 聽取！ [illegible]

Declaration of Conformity

We, Jamo A/S
Elmevej 8
7870 Glyngøre
Denmark

CE

Declare in own responsibility, that the Jamo product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013 and EN61000-3-2

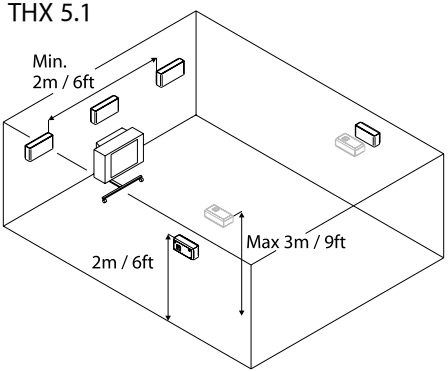
Glyngøre, Denmark

Esben I. Noesgaard

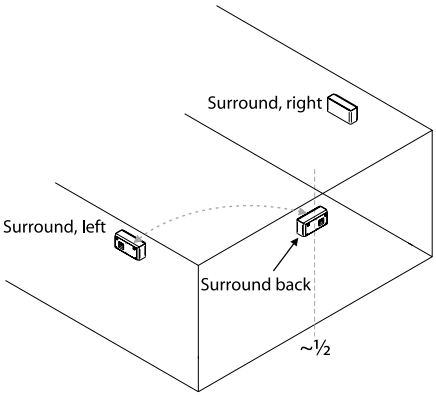
Item no.
69473
33.01

1 D 6LCR / D 6SUR

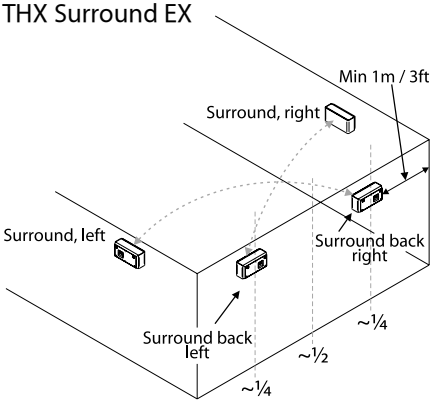
THX 5.1



THX Surround EX 6.1

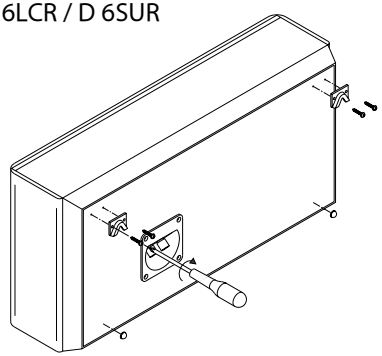


THX Surround EX

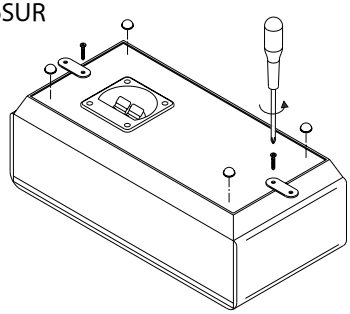


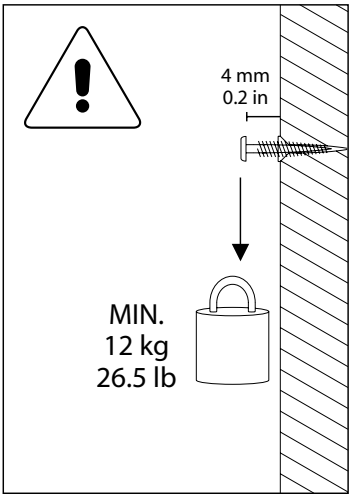
2 D 6LCR / D 6SUR

D 6LCR / D 6SUR

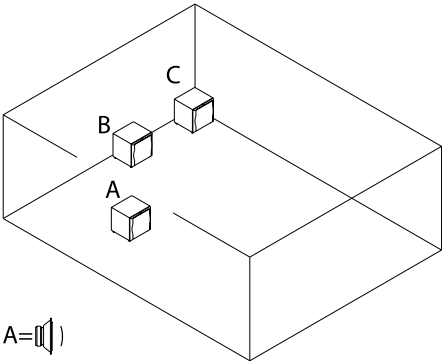


D 6SUR





3 D 6SUB

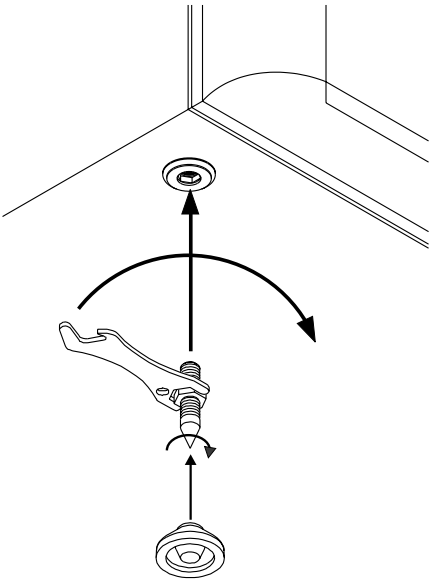


A=

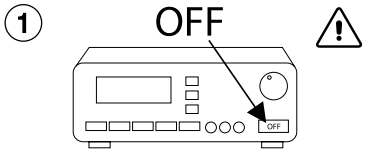
B=

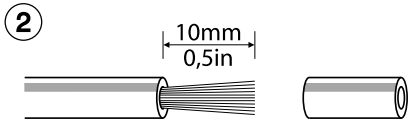
C=

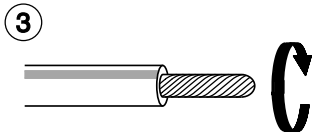
4 D 6SUB

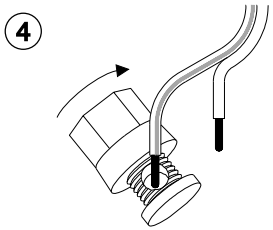


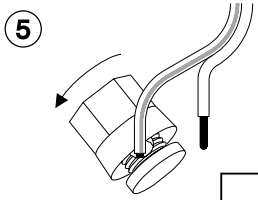
5 D 6LCR / D 6SUR

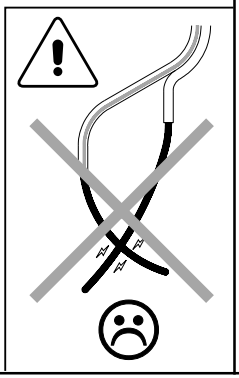


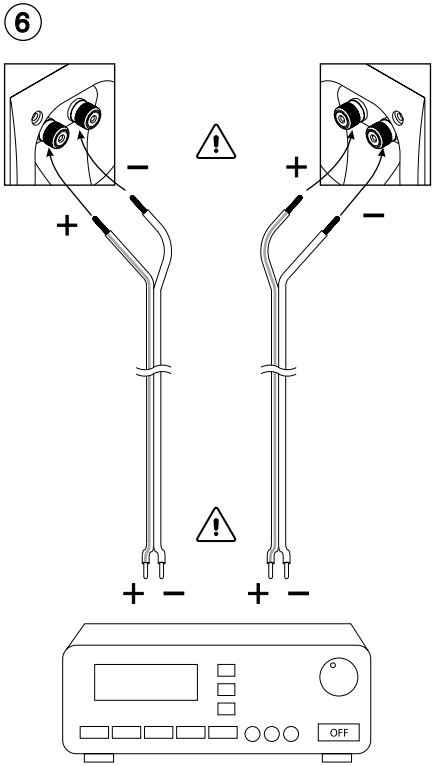


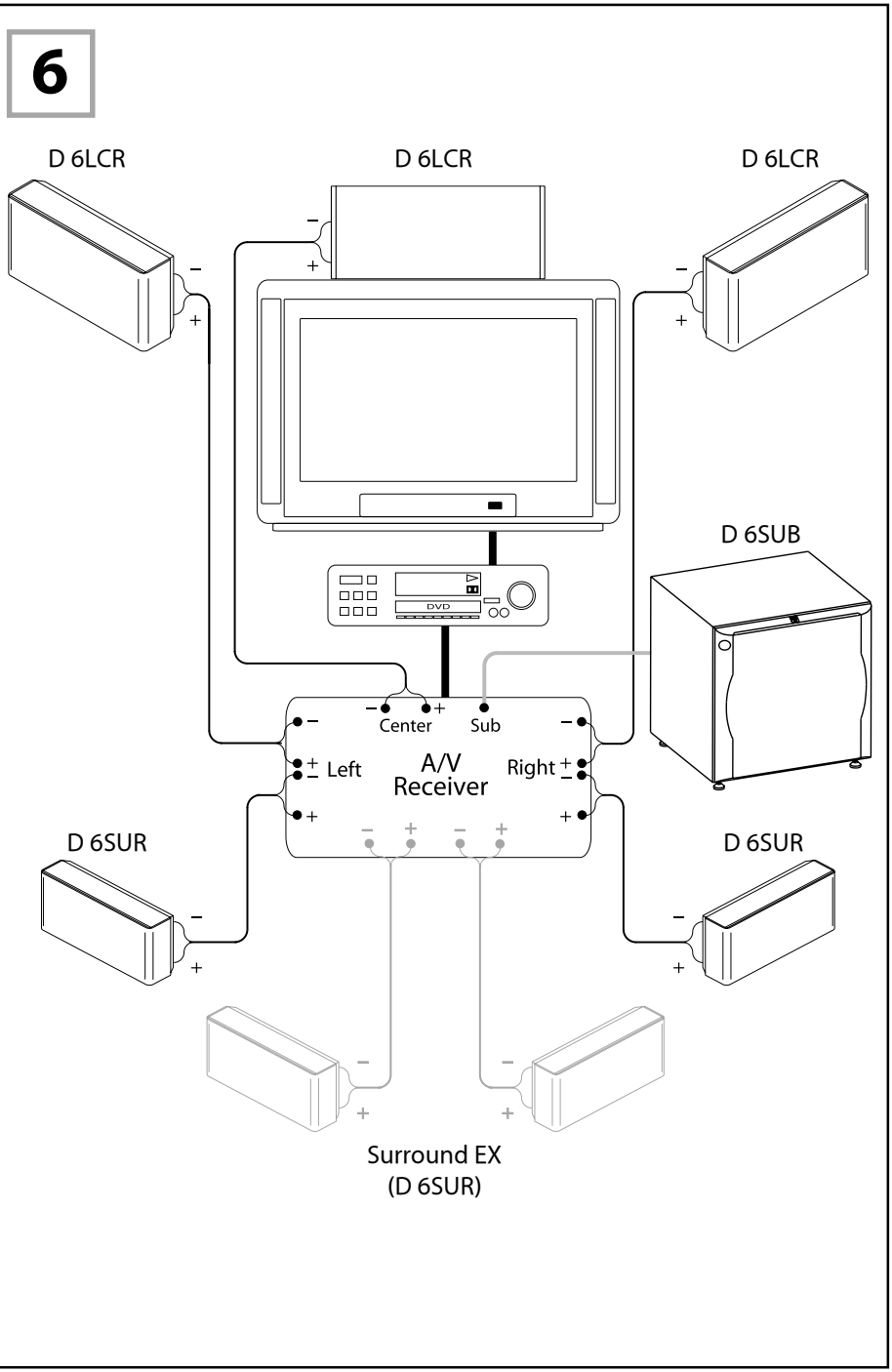






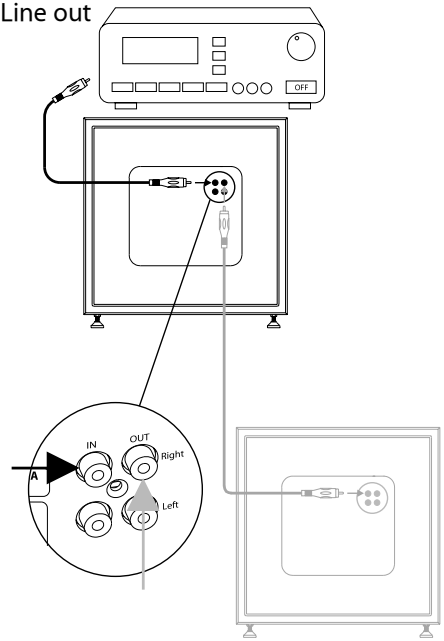




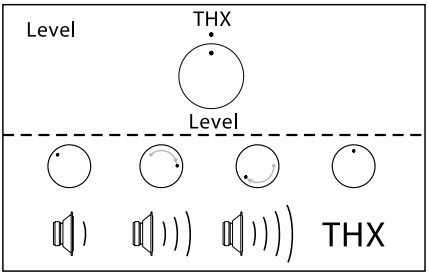

6
D 6LCR
D 6LCR
D 6LCR
D 6SUB
DVD
Center
Sub
Left
A/V
Receiver
Right
D 6SUR
D 6SUR
Surround EX
(D 6SUR)

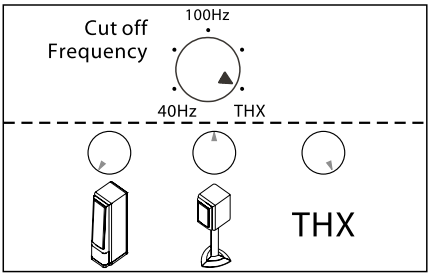
7 D 6SUB

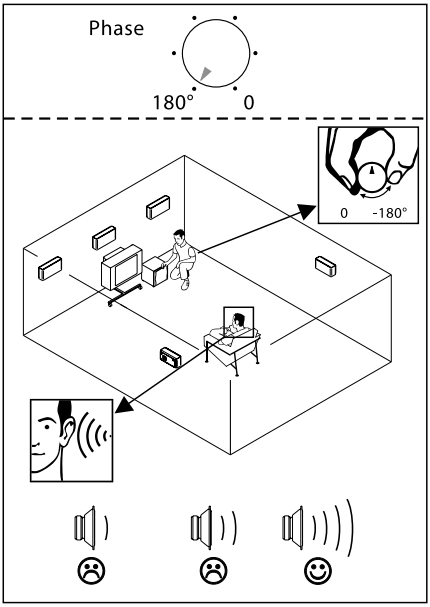
Sub
Line out



8 D 6SUB







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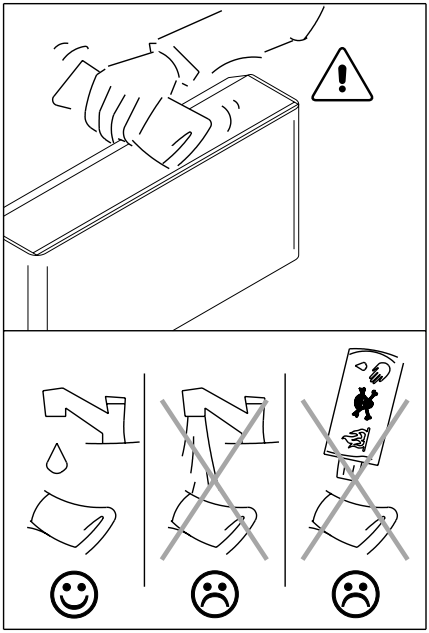

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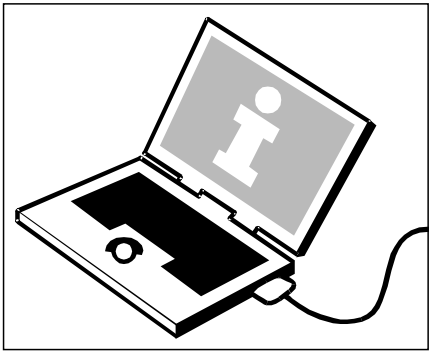


www.jamospeakers.com

11

Type.....**D 6LCR**

System.....3 Way

Woofer.....2 x 6½" / 165 mm

Midrange.....2 x 3¼" / 95 mm

Tweeter.....1" / 25 mm

Power handling*.....180W / 250W

Frequency range.....80 - 20.000 Hz

Impedance.....4 Ohm

Dimensions.....290x595x150mm
11,4x23,4x5,9in

Weight.....11,5 kg / 25,4 lb

Type.....**D 6SUR**

Sytem.....3 Way, dipole

Woofer.....6½" / 165 mm

Midrange.....2 x 3¼" / 95 mm

Tweeter.....2 x 1" / 25 mm

Power handling*.....150W / 200W

Frequency range.....80 - 20.000 Hz

Impedance.....4 Ohm

Dimensions.....210x435x150mm
8,3x17,1x5,9in

Weight.....6,7 kg / 14,8 lb

Type.....**D 6SUB**

System.....Active subwoofer

Woofer.....15" / 380 mm

Amp. Rated output.....400W

Frequency range.....28 - 200 Hz

Upper cutoff frequency.....Adj. 40 - 200 Hz

Maximum SPL.....107 dB

Phase.....Adjustable 0 - 180°

Dimensions.....438x452x438mm
17,2x17,8x17,2in

Weight.....21,5 kg / 47,4 lb

Specifications subject to technical changes.
*Long / Short term power, According to IEC 268-5.

D 6LCR / D 6SUR

Advanced Owner‘s manual

Introduction

Congratulations on choosing Jamo D 6 - a THX Ultra-certified loudspeaker system.
These loudspeakers provide optimum surround sound reproduction.
Of course, Jamo D 6 loudspeakers meet the strict requirements which must be fulfilled to achieve THX Ultra certification.
However, to Jamo, the sound quality is not the only crucial factor, which is why all the other Jamo qualities - design, quality and an excellent finish - are integrated as equally important elements in D 6.

Jamo D 6LCR

THX Ultra-certified front and centre loudspeakers need to be rather big to meet the requirements on vertical directivity, frequency response and dynamic range.
To permit integration in an average living-room, the Jamo D 6 front loudspeakers have therefore been designed as 3 identical, horizontally oriented loudspeakers for wall mounting.
Jamo D 6LCR are equipped with two woofers, two midranges and one tweeter. The midranges are able to handle a very wide frequency range. Other than adding further "body" and clarity to the reproduction of the dialogue, this also permits the lower cut-off frequency to be set very low. As a result, the two woofers may be moved to the sides so that the loudspeakers are horizontally oriented, which makes them a lot easier to place.
Placing all three front loudspeakers at the same height creates a near-sculptural effect, and the sound reproduction is improved as well, because the sound does not bounce up and down when panning across the room.
The efficient magnetic shielding of Jamo D 6LCR allows it to be placed next to a TV set without causing discoloration of the image.

Jamo D 6SUR

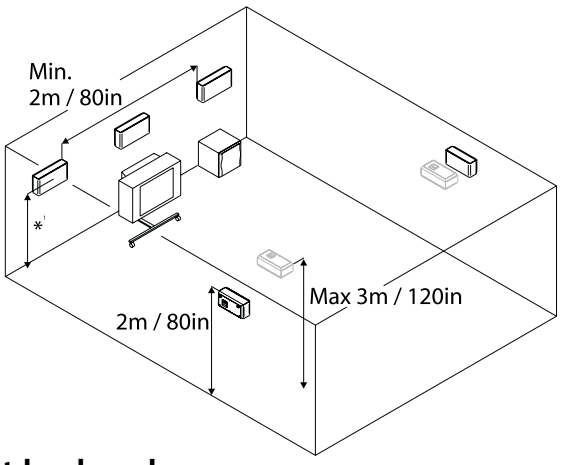
Jamo D 6SUR was designed to add optimum "spaciousness" to the sound effects and the sound scenery. This is achieved by having the loudspeakers emit the sound along the side walls or the ceiling, depending on their placement, so that it is the sound reflections rather than the direct sound which reach the listening position.
In technical terms, the surround loudspeakers have a dipole sound characteristic.
Dipole loudspeakers can be described as two identical loudspeakers placed back-to-back and acoustically out of phase.
In order to achieve sufficient reproduction of the deep bass from the compact design, Jamo D 6SUR uses an extra centre-mounted woofer directed towards the listening position. However, the listener will not be able to locate this woofer in the sound image, as it operates exclusively in the frequency range below 150 Hz.

LUCASFILM THX ULTRA

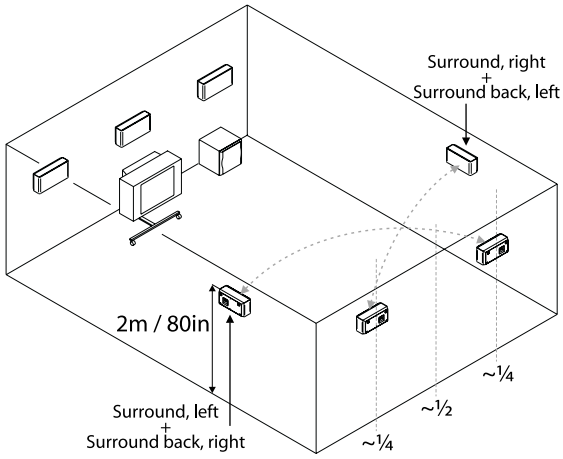
THX and THX Ultra are registered trademarks of Lucasfilm Ltd.

Placing / mounting

THX 5.1



THX Surround EX

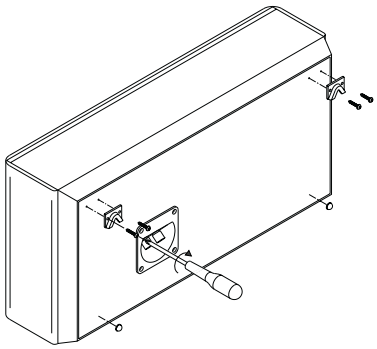


Front loudspeakers

Ideally, the front loudspeakers should be placed at an equal distance to the TV set and at the correct listening height - i.e. with the tweeters at ear height.

Centre loudspeaker

Mount the centre loudspeaker on the wall as close to the screen as possible (immediately above or below it).



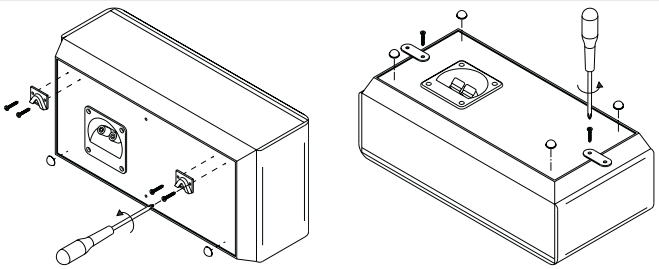
Mount the front loudspeakers on the wall by means of the supplied wall brackets

Note:
NOTE: When mounting the loudspeakers on walls and ceilings, it is important that the screws and rawlplugs used are suitable for the materials in question so that the loudspeakers are firmly mounted.

Surround loudspeakers

Mount the surround loudspeakers in line with the listening position, either on the side walls - approx. 2 m above the floor - or on the ceiling. When mounting the loudspeakers on the ceiling, make sure that the top of each speaker faces the listening position. For mounting on the ceiling, the recommended maximum ceiling height is 3 m. Be careful to place the loudspeakers at the correct side (check the "LEFT" / "RIGHT" indication at the back of the loudspeakers).

To obtain full benefit from the loudspeakers' dipole characteristic, the distance from each side of the loudspeakers to the walls should ideally be minimum 1m / 40in.



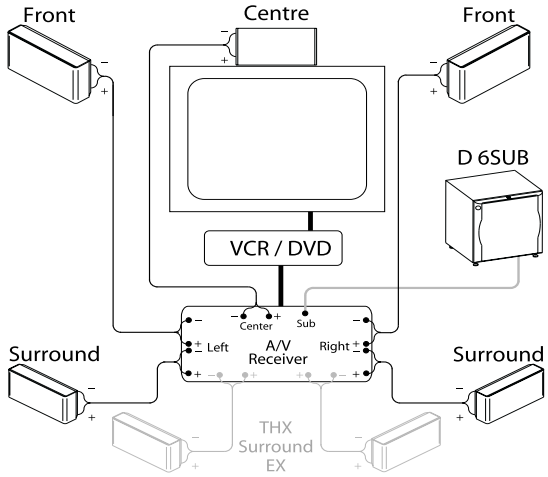
Use the supplied wall brackets for wall mounting
Use the supplied ceiling brackets for mounting on the ceiling

Note:
When mounting the loudspeakers on walls and ceilings, it is important that the screws and rawlplugs used are suitable for the materials in question so that the loudspeakers are firmly mounted.

THX Surround EX

The correct way to place the rearspeakers is to place them approximately in ¼ width of the room. Otherwise the rearspeakers should be placed after the same guidelines as the surroundspeakers.

Connecting



D 6LCR
Connect the D 6LCRs to the center, left and right front channels, respectively.

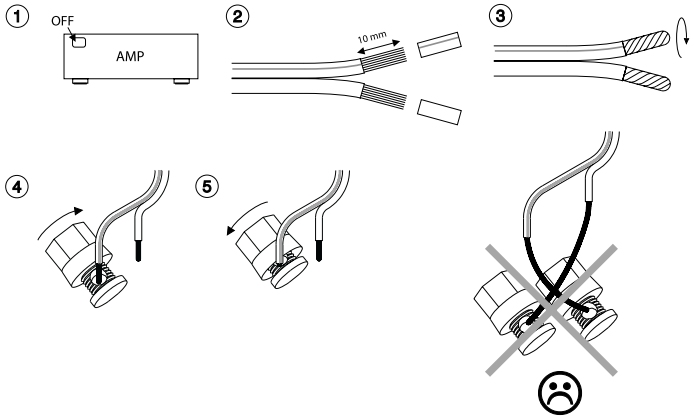
D 6SUB
For instructions on connecting the D 6SUB, consult the D 6SUB owner's manual.

D 6SUR - Surround left / right
Connect the left and right surround speakers to the left and right surround channels, respectively.

D 6SUR - Surround Back left / right
Connect the left and right surround back speakers to the left and right rear channels, respectively

Terminals

The loudspeakers in Jamos THX line are equipped with gold-plated screw terminals which will accept very heavy stripped wire.
Ask your local Jamo dealer for advice on the choice of cable.
In general, the longer the cable required, the better quality should be used to avoid signal loss in the cable itself. In terms of sound reproduction it is therefore an advantage to keep the cables as short as possible; you should, ideally, make sure that the cables used to connect the two speakers are the same length.



Connect the loudspeaker cables as follows:

1. Turn off the amplifier
2. Carefully remove approx. 10 mm of the insulating material – beware not to damage the conductors!
3. Twist the conductor ends
4. Turn the terminal screws counter-clockwise until the conductors can easily fit into the holes
5. Turn the terminal screws clockwise until the cables are firmly secured in the terminals.

NOTE!
Make sure that the + and – wires do not touch each other, as a short-circuit could damage the amplifier's output section.

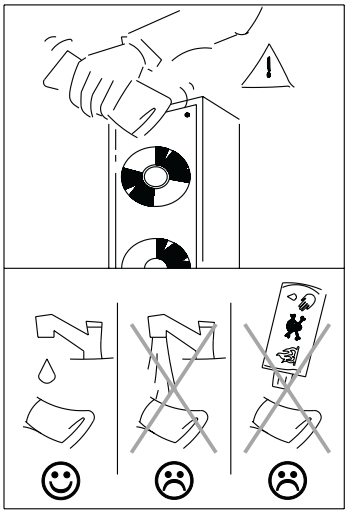
Always make sure that:

The speakers are in correct phase;
The speaker's + terminal is connected to the amplifier's + terminal.
The speaker's – terminal is connected to the amplifier's – terminal.
Usually, the loudspeaker cable is marked on one wire which is normally used to connect the + terminals to ensure correct phase.

Adjusting

Consult the user's guide for the surround decoder/amplifier used for instructions on the correct adjustment/calibration of the sound pressure/level and delay.

Maintenance



All Jamo loudspeakers are manufactured using modern, thoroughly tested materials which usually require no other maintenance than vacuuming or wiping using a soft, dry cloth. If the loudspeakers have become greasy, clean them using a cloth moistened with water or possibly a mild detergent.

Note:
Never use scouring powders, benzine, spirit or other solvents to clean the loudspeakers.

The scope of the warranty

The warranty period will come into force as from the purchase date stated on the invoice. The warranty will apply for the following period of time:

- 2 years for electronics (power supply, amplifier, etc.)
- 7 years for other parts (cabinet, speaker units, etc.)

In case of warranty inquiries, please contact your dealer.

In case of request for service under warranty, please enclose your original receipt.

Defects covered by the warranty:
Except for the defects stated below, the warranty covers any production and material defects of the product.

Defects not covered by the warranty:

- Defects arising from accidents, misuse, normal wear and tear, mis-maintenance, voltage variation, overloading, stroke of lightning, and other force majeure events
- Defects arising from incorrect installation or operation
- Defects arising from modification/repair/attempt of repair by a non-authorised service centre
- Defects arising from the use of non-original spare parts
- Defects on products with altered or lacking series number
- Other defects due to conditions or circumstances beyond the supplier's control

Transportation costs for servicing are not covered by the warranty.

The supplier is liable only to repair or replace defective parts or products. A replacement cannot exceed the value of the product under warranty.

Specifications

Type:	**D 6LCR**	**D 6SUR**
System:	3 Way shielded	3 Way dipole
Woofer:	2 x 6½" / 165 mm	6½" / 165 mm
Midrange:	2 x 3¾" / 95 mm	2 x 3¾" / 95 mm
Tweeter:	1" / 25 mm Dome	2 x 1" / 25 mm Dome
Long term power*:	180 W	150 W
Short term power*:	250 W	200 W
Sensitivity*[1]:	89 dB	85 dB
Frequency range:	80-20.000 Hz	80-20.000 Hz
Crossover freq.:	600 / 3000 Hz	150 / 3000 Hz
Impedance:	4 Ohm	4 Ohm
Overload:	Yes	Yes
Total Volume:	25,9 l	13,7 l
Weight:	11,5 kg.	6,7 kg.
Dimensions:		
Height:	290 mm	210 mm
Width:	595 mm	435 mm
Depth:	150 mm	150 mm
Finish:	Black	Black, White

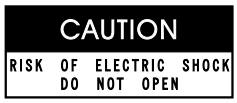
Specifications subject to technical changes.
* According to IEC 268-5.

*[1] 2,8 V / 1 M

D 6SUB

Advanced Owner‘s manual

The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnutide to constitute a risk of electric shock to persons.



Warning:
To prevent electric shock, never open this product.
No user-serviceable parts inside.
Leave all service to qualified service personnel.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and mainte-nance (servicing) instructions in the literature accom-panying the appliance

Safety Precautions

1. **Heed warnings :** All warnings on the product and in the User's Guide must be adhered to.

2. Read all instructions before using this product, and keep the instructions safe for later reference.

3. **WARNING:** To reduce the risk of fire or eletric shock, do not expose this product to rain or moisture - Never use the product immediately after moving it from a cold environment, which may cause condensation.

4. The product must be positioned in such a way that there is sufficient ventilation at all times.

5. Do not place the product near heat sources, such as radiators, heaters or any other heat-emitting appliances.

6. Avoid placing in direct sunlight.

7. The product may only be attached to a mains supply that corresponds to the marking on the product.
   Do not defeat the safety purpose of a polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for safety reasons. If the provided mains plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

8. If the product is not used for a longer period of time, or for added protection during a lightning storm, disconnect the mains lead from the wall outlet.

9. Pull on the mains plug - never the mains lead itself - when disconnecting the plug from the wall outlet.
   Ensure that the mains lead does not become stretched or trapped/clamped, especially around the mains plug and the point at which the lead is connected to the product.

10. Always follow the user instructions when making connections to other appliances.

11. Take care not to drop objects or spill liquid through the openings in the product.

12. The product should be serviced by qualified personnel if:
    The mains lead or plug is damaged.
    Objects are dropped or liquid is spilled into the product.
    The product has been exposed to rain.
    The product is not operating normally.
    The product has been dropped and/or the cabinet is damaged.

13. Please note that this product - either alone or combined with an amplifier, loudspeakers or headphones - can cause damage to hearing.
    Never play at high volume for longer periods and never play so loud that it feels uncomfortable.
    Warning! It can be particularly difficult to estimate sound pressure in the deep bass area, which is why extra attention must be paid in order to avoid harmful sound pressures.
    Always contact your doctor if you experience loss of hearing and/or ringing in the ears.

14. **Warning :** Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attantion to cords at plugs, and the point at which they exit from the product.

Introduction

Congratulations on your choice of the Jamo D 6SUB.
This active subwoofer – a THX Ultra™ certified product – is equally well suited for use in hi-fi and surround systems.
D 6SUB fits easily into any room, as the built-in controls make it possible to adjust the sound reproduction to match the surroundings precisely.
To obtain full benefit it is therefore important that you read this owner's manual. Even though the connection procedure seems obvious, we recommend that you read the section "ADJUSTMENT".

Construction

The D 6SUB cabinet is made of 22 mm particleboard and a 30 mm ARC (Anti Resonance Compound) front baffle.
The unique Jamo ARC technology is a very rigid sandwich construction consisting of a moulded synthetic shell, resonance dead binding foam agent and a massive 25 mm particle board. This leads to an extremely resonance dead baffle and a perfect „base" for the woofer to work from.

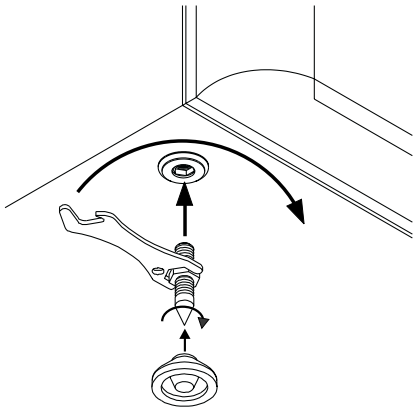
The D 6SUB features a massive MFB (Motional Feed Back) controlled 15" woofer. The woofer features a vented double magnet system and a long 4 layer 2" Kapton voice coil. The result is a very precise longthrow woofer capable of making linear excursions up to +/- 10 mm
The MFB circuitry enables the compact subwoofer to reproduce very low frequencies with excellent timing, and with very low distortion. In the frequency range required by THX (30 – 80 Hz) the acoustical distortion at 98 dB SPL is less than 1%!

D 6SUB is built around a class D amplifier with a very high efficiency of 90%. This results in less power consumption and much less heat dissipation than with conventional amplifiers. When the subwoofer is not in use, the signal controlled stand-by circuit will automatically lower the power consumption to less than 1W. Therefore it is only necessary to switch off the subwoofer when not in use for at longer period of time.

Furthermore the D 6SUB can be trimmed for any room and setup through continuously adjustable volume- phase- and frequency controls.

Placing

The design of the D 6SUB subwoofer allows it to be placed anywhere in the room. You will get the most authentic stereo reproduction if you place the subwoofer in the middle between the satellite/front loudspeakers. The subwoofer works perfectly when placed next to a wall. Placing the unit in – or near – a corner will further enhance the bass reproduction. See also the section "ADJUSTMENT".

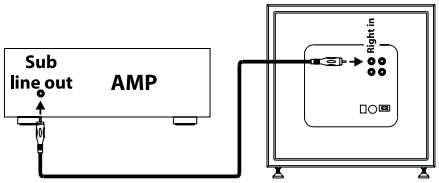


SPIKES
We recommend that you use the supplied spikes when placing the subwoofer on a carpet or similar flooring material. This ensures that the subwoofer sits steadily with good mechanical contact to the surface.
On hard surfaces (e.g. wood or stone), place the subwoofer on the enclosed rubber feet.

Note:
When spikes are fitted on the subwoofer, never drag or push it across the floor, as this is likely to damage both carpets and floorboards.

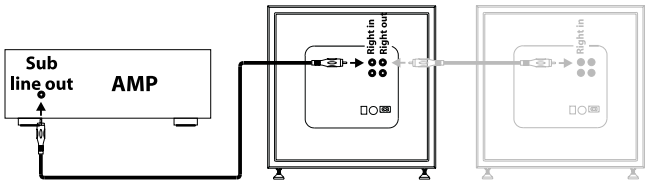
CONNECTING

Below you will find a descriptions on how to connect your D 6SUB:



Connect the subwoofer directly to the subwoofer line-out on the amplifier, with the enclosed phono-cable.

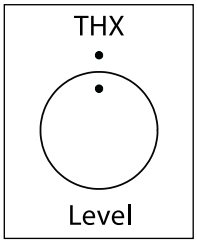
Note:
If you have a stereo line signal avaible, you can connect the left and right output of the amplifier to the left and right input of the subwoofer.

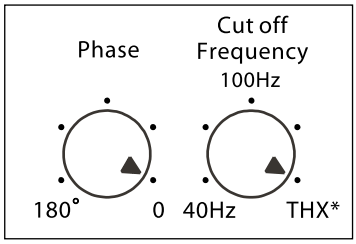


Connection of an extra subwoofer
With Jamo D 6SUB it is possible to connect an extra subwoofer. With the help of the output on the back of the subwoofer, the next subwoofer is connected with a phono cable.

THX

If Jamo D 6SUB forms part of a THX system, please follow these guidelines.



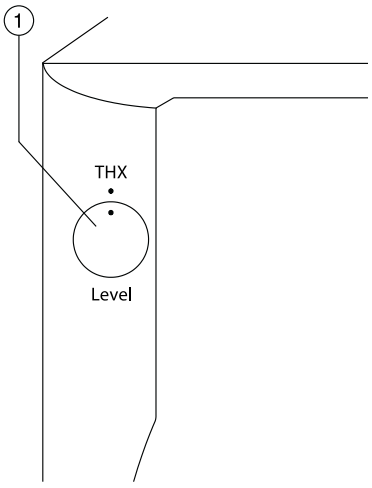


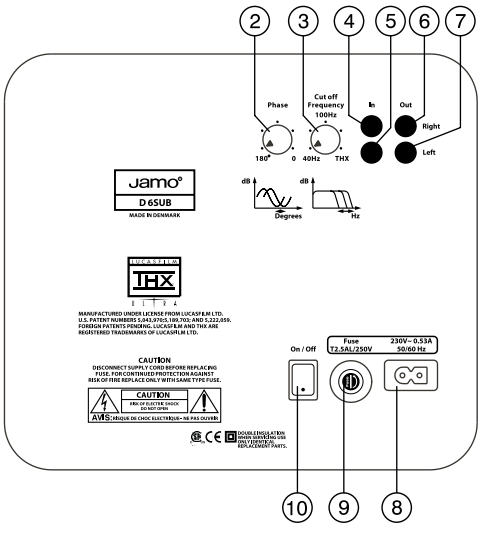
Adjust the subwoofer as shown to comply with THX specifications.

Note:
You may want to adjust the controls, to suit your own taste and the enviroment where the D 6SUB is placed.

*THX = Cut off frequency @ 200 Hz

D 6SUB control panel





Jamo®

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① Level adjustment:
Used to adjust the sound pressure
② Phase adjustment:
Permits variable adjustment of the subwoofer polarity between 0-180°.
③ Cut-off frequency:
Permits variable adjustment of the subwoofer's upper cut-off frequency between 40-200 Hz.
④ Line level in:
Used when connecting the subwoofer to the amplifer.
④+⑤ Line level in:
Used when a stereo line signal is available.
⑥+⑦ Is used for looping the line signal on to either a supplementary active subwoofer or an active speaker with a stereo signal
⑧ Socket for mains cable.
⑨ Fuse retainer
The fuse can be replaced by loosing the retainer with a coin or a similar flat object.
Always use the same type of fuse when replacing an old fuse.
⑩ Mains switch

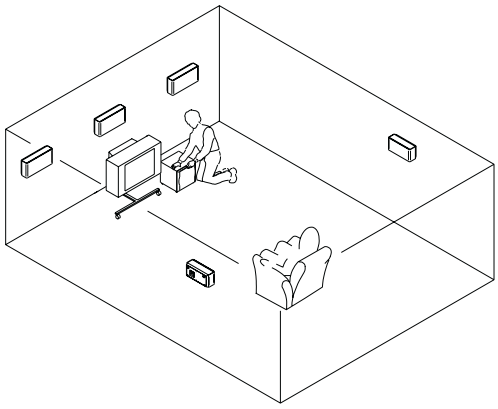
ADJUSTMENT

The Jamo D 6SUB subwoofer system offers endless possibilities of obtaining a sound balance which matches both the surroundings, the type of music played and your personal preferences.

1. After installing the D 6SUB, turn down the level adjustment ①

2. Switch on the subwoofer mains switch ⑩.

3. You can easily adjust the subwoofer's sound pressure level and phase by means of "white noise". Use an FM tuner – tune it to a frequency between two stations, and turn up the volume on the amplifier, until you hear a "hiss" from the satellite/front speakers.

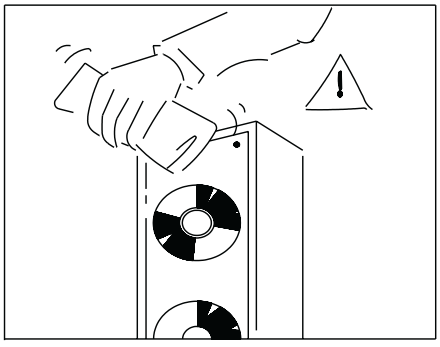


4. Adjust the cut-off frequency ③ to the satellite/front speakers, and increase the level ① until the subwoofer is heard clearly.

5. Use the phase adjustment control ② to select the setting which provides the richest sound in the upper bass range as heard from the listening position. (Have somebody make the adjustments on the phase control ② while you assess the sound from your favourite listening position.)
IMPORTANT! Since you are adjusting the subwoofer's phase setting in relation to the satellite/front speakers used, you will not be able to hear any difference in the bass reproduction if the subwoofer is playing alone when the adjustments are made.

6. You may have to adjust the level setting ① again.

MAINTENANCE



All Jamo loudspeakers are manufactured using modern, thoroughly tested materials which usually require no other maintenance than vacuuming or wiping using a soft, dry cloth. If the loudspeakers have become greasy, clean them using a cloth moistened with water or possibly a mild detergent.

Note:
Never use scouring powders, benzine, spirit or other solvents to clean the loudspeakers.

Specification

Model	Jamo D 6SUB
System	Electronic subwoofer MFB
Woofer	15“ / 380mm
Amplifier, rated output	400 W
Sensitivity	Sensitivity
Frequency range	28 - 200 Hz
Crossover frequency	Adjustable 40 - 200 Hz
Phase	Adjustable 0 - 180°
Weight	21,5 kg / 47,4 lb
Dimensions (HxWxD)	438x452x438 mm / 17,2x17,8x17,2 in